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Abstract:

A nonwoven fabric comprises continuous polymer filaments of 0.5-3 denier that have been hydroentangled in a complex matrix of interconnecting filament loops, and that is otherwise substantially free of knotting, or of otherwise wrapping about one another. A process for making a non-woven fabric comprises continuously extruding polymer filaments of 0.5-3 denier onto a moving support, pre-entangling the filaments with water jets, and entangling the filaments with a second set of water jets. An apparatus for making a nonwoven fabric comprises means for continuously extruding substantially endless polymer filaments of 0.5-3 denier onto a moving support to form an unbonded web, a pre entangling station for entangling the web with a plurality of water jets, and a plurality of water jets for final entanglement of the filament web.

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